

Notice of Allowability	Application No.	Applicant(s)	
	10/724,365	OSAME ET AL.	
	Examiner	Art Unit	
	Long Nguyen	2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Terminal Disclaimer filed on 6/12/06.
2. ☒ The allowed claim(s) is/are 1, 2, 7, 8, 11, 12, 14, 15, 20, 21, 24, 25, 30, 31, 37, 38, 43, 44, 47, 48, 53, 54 and 57-96.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>6/12/06</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Terminal Disclaimer

1. The terminal disclaimer filed on 6/12/06 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 6,870,895 has been reviewed and is accepted. The terminal disclaimer has been recorded.

REASONS FOR ALLOWANCE

2. Claims 1, 2, 7, 8, 11, 12, 14, 15, 20, 21, 24, 25, 30, 31, 37, 38, 43, 44, 47, 48, 53, 54 and 57-96 are allowed.

Claims 1, 2, 57, 61, 75 and 80 are allowed for the same reasons as indicated in the last office action (mailed on 3/10/06), i.e., applicant's arguments filed on 12/30/05 are found persuasive that the prior art of record fails to disclose or suggest the limitation, in combination with other limitations in the claims, the first potential (inputted to a second electrode of the capacitor) is one of a high level and a low level of the digital signal since the closest prior art (Tam, USP 6,628,146) discloses a first potential (ground which is 0V) rather than one of the high level and the low level of the digital input signal (the input as shown in Figures 4 and 5 takes on a low level of approximately 0.5V and a high level of approximately 1.5V).

Claims 14, 24, 37 and 47 are allowed because they depend on claim 1.

Claims 15, 25, 38 and 48 are allowed because they depend on claim 2.

Claims 58-60, 62-64, 76-79 and 81-89 are allowed because they depend on claims 57, 61, 75 and 80, respectively.

Art Unit: 2816

Claims 7, 65 and 85 are allowed for the same reasons as indicated in the last office action (mailed on 3/10/06), i.e., the prior art of record fails to disclose or suggest, in combination with other limitations, a circuit including first and second capacitors, wherein the switch is turned on and a first potential is input to the second electrode of the first capacitor and a second potential is input to the fourth electrode of the second capacitor during a reset period, and wherein the digital signal is input to the second electrode of the first capacitor and to the fourth electrode of the second capacitor during a sampling period after the reset period as recited in the claims.

Claims 11, 20, 30, 43 and 53 are allowed because they depend on claim 7.

Claims 66-69 and 86-90 are allowed because they depend on claims 65 and 85, respectively.

Claims 8, 70 and 91 are allowed for the same reasons as indicated in the last office action (mailed on 3/10/06), i.e., the prior art of record fails to disclose or suggest, in combination with other limitations, a circuit including first and second capacitors, wherein the first and second switches are turned on to input a first potential to the second electrode of the first capacitor while the fourth switch is turned on to input a second potential to the fourth electrode of the second capacitor during a reset period, and wherein the third switch is turned on to input the digital signal to the second electrode of the first capacitor while the fifth switch is turned on to input the digital signal to the fourth electrode of the second capacitor during a sampling period after the reset period as recited in the claims.

Claims 12, 21, 31, 44 and 54 are allowed because they depend on claim 8.

Claims 71-74 and 92-96 are allowed because they depend on claims 70 and 91, respectively.

Art Unit: 2816

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directly to Examiner Long Nguyen whose telephone number is (571) 272-1753. The Examiner can normally be reached on Monday to Thursday from 8:00am to 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached at (571) 272-1740. The fax number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**LONG NGUYEN
PRIMARY EXAMINER**